

SEQUENCE LISTING

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Seq ID 7

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Seq ID 8

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Seq ID 9

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Seq ID 14

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Seq ID 15

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Seq ID 21

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Seq ID 22

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Seq ID 23

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Seq ID 28

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Seq ID 29

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Seq ID 30

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Seq ID 31

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Seq ID 32

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Seq ID 33

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Seq ID 34

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Seq ID 58

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Seq ID 59

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Seq ID 60

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Seq ID 61

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Seq ID 62

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Seq ID 63

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Seq ID 64

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 RELGAAVHSHATSVRIANAGKNHTRDVVRMANESSRLLQGMKVLSVGAWANTMTVLIQDILFE

Seq ID 65

MKTLWHFVSKAFLSIVGLCCGVVLAFVVIPLIASSLGNGDATFVSLPDAQGEVKDLGKTAPIIAVIEMKDVIASSKNTA
 KTIQNIILEGFKEPLKDRVKGIVIDMDCPGGEVFEIDRIYSMLRFWERKGFIYIIVNGLCASGGYYVSCAATKIYATS
 SSLIGSIGVRSGPFFNVKEGLNRYGVESDLLTAGDKDAPMNPyTPWTSHDREERQATLDFLYQFVDIVTONRPLLTKEK
 LVHTLGARIFSPPEKAKQEGYIDVVGATKEQVLQDIVAVCKIEDNYRVIGSGGDWWKRVASAAAASSPLVTGMIKHDILPL
 SHDAAYIPPLAL

Seq ID 66

MRPHRKHVSSKSLALKQSASTHVEITTKAFRLSMLKQLILEKSDHLPMETIRVVLTSHKDKLGTEVHVVASHGKEILQ
 TKVHNANPYTAVINAFKKIRTMANKHSNKRKDRKHDGLAACEERIAIQEEQEDRLSNEWLPVEGLDAWDSLKTLGYVP
 ASAKKKISKKKMSIRMLSQDEAIRQLESAAENFLIFLNEQEHKIQCIYKKHDGNYVIEPSLKGFCI

Seq ID 67

MAAPINQPSTTQITQTGQTTTTTVGSLGEHSVTTGSGAAAQTSQTVTLIADHEMQEIASQDGSAVFSAEHSFSTLP
 PETGSVGATAQSAQSAGLFLSLSGRTQRRDSEISSSDGSSISRTSSNASSGETSRAESSPDLDLDSLGSERAEGAEGP
 EGPGGLPESTIPHDPDKASILNFLKNPQAVQQKMOTKGHHFVYVDEARSSIFVRNGDWSTAESIKVSNAKTKENITKP

ADLEMCIAKFCVGYETIHSWDTGRVKPTMEERSGATGNYNHMLSMKFKA VETG
 PIWDDVGGLKGINWKTTPAPDFSFINETPGGGAHSTSHTGPGLPGATVVPNVNLGGIKVDLGGINLGGITTNTV
 GGGTNITSTKSTSTDDKVSITSTGSQSTIEEDTIQFDDPGQGEDDNAIPGTNTPPPGPPNLSSRLLTISNASLNQVL
 QNVRQHNTAYDSNGNSVSDLNQDLGQVVKNSENGVNFTVILPKTTGDTDPSGQATGGVTEGGGHIRNIIQRNTQSTGQ
 SEGATPTPQOPTIAKIVTSRKRANSSSVLPQPVATTITPQARTASTSTSIGTGTESTSTTSTGTGTGSVSTQSTGVG
 TPTTTTRSTGTSATTTSSASTQTPQAPLPSGTRHVATISLVRNAAGRSLVQQGRSQSFPIPPSGTGTQNMGAQLWAA
 ASQVASTLGQVNVQAATAGSQPSSRRSSPTSPRK

Seq ID 68

MKTSQFLYKTSKNANKSAAVLSNELLEKAGYLFKVKSGVYTYTPLWRVVSKMMNIIREELNAIGGQELLPLLNHAELW
 QHTGRWEAFTSEGLLYTLKDREGKSHCLAPTHEEVICSFVAQWLSSKRQLPLHLYQIATKFRDEIRPRFGLIRSCELLME
 DSYTFSDSPEQMNEQYKEKLRSAYSKIFDRGLGLAYVIVTADGGKIGKGKSEEFQVLCQLGEDTICVSGSYGANIEAAVSIP
 PQHAYDREFLPVEEVATPGITTIEALANFFSIPHLKILKTLVVKLQLSNEEKFTAIGMRGDRQVNVLKVASKLNADDIAL
 ASDEEIERVLGTEKGFIGPLNCIPIDFFADETTSPMTNFCAGNAKDKHYVNWNWDRDLPQYGDFLAEGDTCPEPNPG
 HPYRIYQGIEVAHIFNLGTRYTDSFEVNFDQDEHGTQQCWMGTYIGVGRTLAACVEQLADDRGIVWPKA
 LAPSITIAFWCQNHLA

Seq ID 69

MASGIGGSSGLGKIPPKDNGDRSRSPSPKGELGSHEISLPPQEHGEGASGSSHIIHSSSFLPEDQESQSSSAASSPGF
 FSRVRSGVDRALKSFGNFFSAESTSQARETRQAFVRLSKTITADERRDVSAAAATEARVAEDASVGENPSQGVPE
 TSGPEPQRLFSLPSVKKQSGLGRLVQTVRDRIVLPGAPPTDSEPLSLYELNRLSSLRQELSDIQSNDQLTPEEKAEATV
 TIQQLIQITEFQCGYMEATQSSVSLAEARFKGVETSDEINSLCSELTDPQELQELMSDGSILQNLDETADDLEAALSHAR
 LSFSLDDNPTPIDNNPTLISQEEPIYEEIGGAADPQRTRENWSTRIWNQIREALVSLGMILSILGSILHRLRIARHAAA
 EAVGRCCTRGEECTSSEEDSMSVGPSEIDETERTGSPHDVPRRNQSPREDPLMNALVGWAHKHGAKTKESSESSTPE
 ISISAPIVRGWSQDSSVSFIVMEDDHIFYDVPRRKDGIFYDVPSSPRWSPARELEEDVFGDYEVPI
 TAEPSKDKNITYMTP
 RLATPAIYDILPSRPGSSGSSRSPSDRVRSSSPNRRGVPLPPVSPAMSEEGSIYEDMSGASGAGESDYEDMSRSPSPRG
 DLDEPIYANTPEDNPFTQRNIDRILQERSGGASASPVEPIYDEIPWIHGRPPATLPRPENTLTNVSLRVSPGFGPEVRAA
 LLSESVSAMVEAESIVPPTEPGDGESEYLEPLGLVATTKILLQKGWPRGESNA

Seq ID 70

MRFPCFGMLLPFTFVLANEGLQLPLETYITLSPHEYQAAPQVGFTHNQNQDIAIVGNHNDIILDYKYYRSNGGALTCKNLL
 ISENIGNVFFEKNCVNPNSGGAIYAAQNC TISKNQNYAFTTNLVDNPTATAGSLLGGALFAINC SITNNLGQGTVDNLA
 LNKGGALYETE TNLSIKDNKGPII IKQNRALNSDSLGGIYSGNSLNIEGNSGAIQITSNSSGGGIFSTQTLTISSNKK
 LIEISENSAFANNYGSNFNPNGGGI LTTTFC TILNNREGVLFMNNQSNSNGGAIHAKSIIKENGPVYFLNNTATRGALL
 NLSAGSGNGSFILSADNGDIIFNNNTASKHALNPPYRNAIHSTPNMNLQIGARPGYRVLFYDPIEHELPSSFPILFNFET
 GHTGTVLFSGEHVNQNFTDEMNFPSYLRNTSELRQGVLA
 VEDGAGLACYKFFQRGTLLLGQGAVITTAGTIPTPSSTPT
 TVGSTTILNHTAIDLPSIILSFQAQPKIYPTKTGSTYTEDSNPTITISGTLT
 LRSNNEDPYDSDLDSHSLEKVPPLY
 IVDVAAQKINSSQLDLSTLNSGEHYGYQGIWSTYWEITITNTPSILGANTKHKLLYANWSPLGYRPHPERGE
 FITNA
 LWQSAYTALAGLHSLSWDEEKGHAASLQGIGILVHQDKNGFKGFRSHMTGYSATTEATSQSPNFSLGFAQFFSKAKE
 HESQNSTSSHYFSGMCIENTLFKEWIRLSVSLAYMFTSEHTHTMYQGLLEGNSQGSFHNTLAGALSCVFLPQPHGESL
 QIYPFITALAIRGNLAQFQESGDHAREFSLHRPLTDVSLPGVIRASWKNHHRVPLVWLTEISYRSTLYRQDPELHSKLLI
 SQGTWTTQATPTVYNALGIKVNTMQVFPKVTLSDY SADISSSTLSHYLNVASRMRF

Seq ID 71

MKSLLHWFLISSSLALPLSINFSAFAAVVEINLGPTNSFSGPGTYTPPAQTTNADGTIYNTLGDVSITNAGSPTALTASC
 FKETTGMLSFQGHGYQFLLQNIIDAGANCTFTNTAANKLLSFGFSYLSLIQTTNATTGTGAIKSTGACSIQSNYSCYFGQ
 NFSNDNGGALQGSSISLISLNPNLTFAKNKATQKGALYSTGGITINNTLNSASFSENTAANNGGAIYTEASSFISSNKAI
 SFINNSVTATSATGGAIYCSSTSAPKPVLTSDNGELNFIGNTAITSGGAIYTDNLVLSSGPTLFKNNSAIDTAAPLGG
 AIAIADSGSLSLSLALGGDITFEGNTVVKGASSQTTNSINIGNTNAKIVQLRASQGNTIYFYDPITTSITAALSDALN
 LNGPDLAGNPAYQGTTIVFSGEKLSEAEEADNLKSTIQQPLTLAGGQLSLKSGVTLVAKSFQS PGSTLLMDAGTTLET
 ADGITINNLVLDLSKETKKATLQASQTVTSLGSLSLVDPSGNVYEDVSWNNPQVFSCLTLTADDPANIHTDLAA
 DPLEKNPIHWGYQGNWALSWQEDTATSKAATLTWTKTGYNPNPERRGTLVANTLWGSFVDVRSIQQLVATKVRQSQETR
 GIWCEGISNFNFFHKDSTKINKGFRHISAGYVVGATTTLASDNLITAACFQLFGKDRDHFINKNRASAYAASLHLQHATL
 SPSLLRYLPGSESEQPVLFDAQISYIYSKNTMKTYYTQAPKGESSWYNDGCALEASSLPHTL SHEGLFHAYFPFIKVE
 ASYIHQDSFKEERTTLVRSFDGDLINVSVPIGITFERFSRNERASYEATVIVADVYRKNPDCCTTALLINNTSWKTTGT
 NLSRQAGIGRAGIFYAFSPNLEVTSNLSMEIRGSSRSYNADLGGKFQF

Seq ID 72

MFEKFTNRAKOVIKLAKKEAQLRNHNLYLGTEHILLGLLKLQGVAVNVLRLGIDFD TARQEVERLIGYPEI QVYGDPA
 LTGRVKKSFESANEEASLLEHNYVGTEHLLLGILHQSDSVALQVLENLHIDPREVRKEILKELETFNLQLPPSSSSSS
 SRSNPSSSKSPLGHSLSGDKNEKLSALKAYGYDLTEMVRESKLDPVIGRSSEVERLILILCRRKNNPVLIGEAGVGKTA
 IVEGLAQKIIILNEVPDALRKRLITLALMIAGTKYRGOFERIKAVMDEVRKHGNILLFIDEHTIVGAGAAEGAIDA
 SNILKPALARGEIQCIGATTIDEYRKHIEKDAALERRFQKIVVHPPSVDETIEILRGLKKYEEHHNVFITEEALKAAAT

LSDOVYHGRFLPDKAIDLLEAGARVRVNTMGQPTDLMKLEAEIENTKLAKEOAIGTQEYEKAAGLRDEEKKLRLERLQSM
KQEWEHNKEEHQPVDEEAVAQVSLQTGIPSARLTERAESEKLLKLEDTLRRKVGQNDAVTSICRAIRRSRTGIKDPNR
PTGSFLFLGPTGVGKSLLAQQAIEMFGGEDALIQVDMSEYMEKFAATKMMGSPPGVGHEEGGHLTEQVRRPVCVVLF
DEIEKAHPDIMALMILQILEQGRILTDSGRKVDFRHAIIMTSNLGADLIRKSGEIGFGLKSHMDYKVIQEKEHAMKKHL
KPEFINRLDESVIFRPLEKESLSEIIHLEINKLDSRLKNYQMALNIPDSVISFLVTKGHSPEMGARPLRRVIEQYLEDPL
AELLKESCRQEARKLRLATLVENRVAFEREEEQEAALPSPHLES

Seq ID 73

MGLQSRLQHICIEVSQNSNFDSQVKQFIYACQDKTLRQSVLKIFRYHPLLKIHDIAARAVYLLMALEEGEDLGLSFLNVQQY
PSGAVELFSCGGFPWKGKLPYPAEHAEGLLLQIAEFYEEQAYVSKMSHFQQALFDHQGSVFPSSLWSQENSRLKEKTT
LSQSFLFQLGMQIHPEYSLEDPALGFWMQRTSSSAFVAASGCQSSLGAYSSGDVGVIAYGPCSGDIISDCYYFGCCIAK
EFVCQKSHQTTEISFLTSTGKPHPRNTGFSYLRDSYVHLPIRCKITISDKQYRVHAALAEATSAMTSFISIFCKGKNCQVVD
GPRLRSCSLDSYKPGNDIMILGENDAINIVSASPMEIFALQGKEKFWNADFLINIPYKEEGVMLIFEKKVTSEKGRFF
TKMN

Seq ID 74

MTKIAFSEKAKNFPVEALKWFEKKNRSLPWRDNPTPSVWVSEVMQQTRAEEVVIDYFNQWMERFPTIESLAAKEEDV
IKLWEGLGYYRSRARHLLEGARMVMEEFHGKIPDDAISLAQIRGVGPYTVAAILAFAKRRAAAVDGNVLRVLSRIFIET
SIDLESTRTWVSRIAQALLPHKSPEVIAEALIELGACICKVPOCHRCPVROACGAWRENKQFVL.PVRHARKKVIFLHRL
VAIVLYDGSIVVEKRRPKEMMAGLYEFPYIEVEPEEGLQDIEGFTKMMELSPLEFLGNLKEQRHAFTNHKVHLCPII
FKATS L P Q F G E L H L L S D I D H L A F S S G H K K I K D A L L I Y L G D V R S R E I G V

Seq ID 75

MAVSGGGGVQPSDPGKWNPALQGEQAEGPSPLKESIFSETKQASSAAKQESLVRSGSTGMYATESQINKAKYRKAQDRS
STSPKSCLKGTFSKMRASVQGFMGFGSRASRVSAKRASDSGETSLLPTEDVALKKNRISPENQFFLDASGMGGSS
SDISQLSLEALKSAFSGARSLSSSESSVASFGSFQKAIPEMSEEKVNAWTVALGGEMVSSLLDPNVETSSLVRRA
MATCNEGMIDLSDLGQEVSTAMTSRRAVEGKVKVSSDSPEANPTGIPNSNTLERAEEKAEKQESREQLSEDQMLARA
MAGLLTGAAPEVLSNSVWGPSTVFPPPKFSGTLPTQRSGDKSKHKS PGIEKSTNHTNFSPLREGTVKSAEVKSLPHPE
SMYRFPKDSIVSREEPEAVVKESTAFKNPENSQNFLPIAVESVFPKESGTGGALGSDAVSSSYHFLAQRGVSLAPLPR
ATDDYKEKLEAHKGPGGGPDPLIYQYRNVAVEPPIVLRSQPFGSSRLSVQGKPEAASVHDDGGGNSSGGFSGDQRGRGS
SGQKASRQEKKGKKLSTDI

Seq ID 76

MKRSWLKILGICLGSIVLGFLIFLPQLLSTESGKYLVFSLIHKESGLCSAELKISWFGROTARKIKLTGEAKDEV
SAEKFELDGSSLRLLIYKKPKGITLGSWSLKINEPASIDHPSVSHLPGSLLTYLNDCKIISEHGFITMKTVGSSLSVS
GFYLEKSSEKFMTCVVSEDQQSGNIFIESVLSPDVSISAQFSSVPVAFFKIFIASPFWDHLLSYEDIINLSAEATHND
GKISMATASGEQNQIQMQLQGHINKSTFYIVEGSSSFIELKPELASALCNQIIPLSTPITSQIATVSYAKIPLDITKWK
HIEITSQAQLPEVIAHPKDPNLALQRLDTKLGKIKTEKFSDIRYSSSTVLGGASPSHLNGLISIDNKKHLTKFRLQQAQL
PHTYLRAIFPQPFVINPLDVAYYSLNTEGTYKNAHEADAILDNPLKLSCMSGAWKNFLFKGQGTYHFNKKWQEILS
PHFSYAEARFSKAQITDTNLFFPKFSKGKITARENELLIAKFGSPNEPIKPETTSILIHQFCSLPLSLVSNHLPFHL
KKLTFSFHTDGGKFVTKGNLQALIENPDYPDLNTRNLLIPDLLLLSDESSTSPSKDLKIQGSGEIFSLPLDSITKTYGK
QVRLSPYFGSSGDLNVVNNPKDQNLTLLSNFKSEALLGELKLVMDFSMKLSSGTQGTLQWEVSPERYASFFKNASCS
PTCILHRTANVRLDISKLSCPEETKGLSCLTLAAGGLEGSLEATPLIFYDNVSKETFIINDFKGSLRANNLDAKIEYDL
KGSCCLAPRODSKTLAEFSLEGQVDHLPSPESREFKQTANWIHIPSSFLAGIIPMSPGLKAQISSLAGPRINVSIKNAFRF
GEGPVDIMVDSENLQAQIPLILNEKSILLRENLTAHLSINEDVNKAFLQEFNPLLAGGAYSQYPVTLEIDKQNFYLPIRP
YSFEEFRIQSATLDMGKISIANTGTMYALFQFLDITDQKQFVESWFTPPIFFSVQKGSITCKRXDALIDRRIRLALWGKTD
IAHDLRFMTLGLGIDPEVICKYFHNTSLKTKNFFLIKIRGSISSPEVDWSSAYARIALLKSYSILGNPFSIADKLFSLLGDS
TPPPVTVPFFPWEKSNFDSIENK

Seq ID 77

MSSPVNNTPSAPNIPIPAPTPGIPPTKPRSSFIEKVIIVAKYILFAIAATSGALGTLGLSGALTPGIGIALLVIFFVS
MVLGLILKDSISGGEERRLREEVSRFTSENQRLTVITTLTEEVKDLKAADQTLTEIAFRNENGNLKTTAEDLLEQV
SKLSEQLEALERINQLIQANAGDAQRISSELKLLISGWDSKVQEINTSIQALKVLLQEWVQEAQTHVKAMQEQIQLAQ
AEILGMHNQSTALQSVENLLVQDQALTRVVGELLESENKLSQACSLQREIEKLAQHETSLQQRIDAMLAQEONLAEQV
TALEKMKQEAQKAESEFIAVDRDTEGRRETPTVVEGDESQEEDEGGTPVSPQSSPVDRATGDQG

Seq ID 78

MYDPNLIEKKWQFWKEHRSFQANEDEDKVKYYVLDMPYPSGAGLHVGLIYTATDIVARYKRARGFSVLHMGWDS
FGLPAEQAIRGTGTHPKVTTQKNTIANFKKQLSAMGFSYDEGREFATSDPDYYHWTQKLFFLYDQGLAYADMADVNCPE
LGTVLNNEEVENGFSIEGGYVVERKMLROWILKITAYADKLLGDLADLWPENVKQLQKNWIGKSEGALVTFHLTQEGSL
EAFTTRLDLTLGVSFLVIAPEHPDLDIVSEEQRDEVTAYQESLRKSERDRISSVKTKGVFTGNYAKHPITGNLLPVW
ISDYYVLGYGTGVMGVPAHDERDREFAEMFSLPIHEVIDDNGVCIHSNYNDFCINGLGLSGQEAQDYVINYLEMRSLGRAK
TMYRLRDWLFSRQRYWGEPIPIIHFEDGTHRPLEDDELPLLPPNIDDYRPEGFGQGPLAKAQDWVHIYDEKTGRPGCRET
YTMPQWAGSCWYIYLRFCDAHNSQLPWSKEKESYWMPPDLYIGGAEHAVLHLLYSRFWHRVFDAGLVSTPEPFKKLINQG

LVLASSYRIPGKGYVSIEDVREENGWTISTCGEIVEVRQECKMSKSCLNGVDPOVLIIEYGADALRMYAMFSGPLDKNKTWSNEGVGGCRFLNRFYDLVTSSVEQDIEDRDGLVLAHKLVFRITEHIEKMSLNTIPSSFMEFLNDFSKLPVYSKRALSMARVLLEPIAPHISEELWVILGNPPGIDQAAWPQIDESYLAQTVTFVVQVNGKLGRLEVAKEEVLSRSVVAKYLENAQIRKEIVYPNKLVNFV

Seq ID 79

LEKIMFGENSRDIGVLSKEGLFDKLEIGIASDITIRDWKSCGEIKKPETINYRTFKPEKGLFCEKIFGPTKDWECCCCGKYYKKIKHKGIVCDRCGVETLSKVRERMAHIELAVPIVHIWFFKTPSRIGNVLMGTASDLERVIYYEYVVIDPGKTDLTKKQLLNDQAQYREVVEKGKDAFVAKMGGEAIYDLLKSEDLQSLKLKRLKRTKSQOARMKLAKRKIIIEGFVSSSNHPEWMVLKNIPVVPDDLRPLVPLDGGRFATSDLNDLYRRVINRNNRLKAILRLKTPEVIVRNEKRLQEAVDALFDNGRHGHPVMGAGNRLPLKLSSEMLKGKNGRFRQNLLGKRVDSGRSVIIVGPELKFNCQGLPKEMALELFEPFIKRLKDQGSVYTIRSAKKMIQRGAPEVWDVLEEIICKHPVLLNRAPTLHRLGIQAFEPVLIEGKAIIRHPLVCAAFNADFDGDQMAVHPLSVEAQLEAKVIMMAPDNIFLPSSGKPVAIPIPSKDMTGLYLMADPTYFPEEHGGKTKIFKDEIEVRLRALNNGFIDDVGDRRDETGRGIHIHEKIKVRIDQIIEITTPGRVLFNRIVPKELGFQNSMPSKRISELILQCYKKVGLAEATVRFLDDLKDGFIQATKAAISMGLKDVRIPDIKSHILKDAYDKVIAVKKQYDDGIITEGERHSKTISIWIETSEQLSDALYVEISKOTRSKHNPLFLMIDSGARGNKSQQLKQLGALRGLMAKPGNATIESPITSNFREGLTVLEYSISSHGARKGLADTALKTADSGYLTRLVDVAQDVIITEKDCGTLNHIETISAIGQGSEELLPLKDRYIYDADLSELVGTYAIPSGAIISVEEGQRVETIKIRSTLTCESPRGVCACKYGLNLANGRLIGMGEAVGIIAAQSIGEPGTQLTMRTFHLLGGIAATSSTPEIITNSDGILVYMDLRVVLGQEGHNLVLNKKGALHVVGDEGRTLNNEYKLLSTKSIESLEVFSQGQRIAEVELHNPIIICDKPGFIKYEDLVEGISTEKVVKNTGLVELIVKQHRLGELHPQIAIYDADLSELVGTYAIPSGAIISVEEGQRVDPGMLLARLPRGAIKTDITGGLPRVAELVEARKPEDAADIAKIDGVVDFKGIQKKNKRILVVCDEMTGMEEEHLIPLTKHLIVQRGDSVIKGQQLTDGLVVPHETILEICGVRELOKYLVNEVQEVRQLQGVVDINDKHEITIVRQMLQKVRITDPGDTLLFGEDVNKKFEEYENRRTEDGGKPAQAVPVLGITKASLGTESFISAASFQDTTRVLTDACCSDYLLGFKENVIMGHMIPGGTGFETHKRIKQYLEKEQEDLVFDFVSETECVC

Seq ID 80

MDTQSSIGNEEWRIAGTSVVSQGMALGVFFLGTSPHLVRELTLPQEEVEHEIHYRYKALNRSKSDIVALEQEVGTGQQGLQEVSSILQAHLEIMKDPLTTEEVNTIRKDRKNAEVFSSVMGKIEESELTAVRGMPSSVDRVQDIHDISNRVIGHLCCQHKSSLGESDQNLIIIFSEELTPSEVASANSAYIRGFVSLVGAATSHATAVSRAKSIPYLANISEELWNIACKRYNGKLVLIDGYRGELIFNPKPATLQSCYKKELSVVAHTSQRQLVRKSLHPIVSSHAGSDKDVEDLENFPQTSIGLFRSEFLAVILGRLPTLREQVDLYEKLARFPGDSPSVLRLFDGEDKPCPGIKNKKERSIRWLLDYSVILEDQQLQAKASLQGSIKVLIPGVSDVSIIIEVKKKWEITQTRFPKGKVSQGTMIEFFPSAVWMIEEILPECDFLSIGTNDLVQYTLGISRESALPKHNVTLPPAVIRMIHVLQAAKQNPVPSICGEAAGQSLTPLFIGLGVQELSVAMPVINRLRNHIALLELNSCLEITEALLQAKTCSEVEELLNRNNKITS

Seq ID 81

MRQEKDLSLGIVEVPEDKLYGAQTMRSNFFSWGPELMPYEVIRALWIKKCAAQANQDLGFLDSKHCDMIVAAADEILEGGFEEHFPLKVWQGTGSQTSNMNVNEVIANLAIHHGVLGSKDPIHPNDHVNSQSSNDVFPTAMHIAAVISLKNKLIPALDHMIRVLDAKVEEFRHDVKIGRTHLMDAVPMTLGQEFSGYSSQLRHCLESIAFSLAHLYELAIGATAVGTGLNVPEGFVEKIIHYLRKETDEPFIPASNYFSALSCHDALVDAHGSLATLACALTAKIATDLSFLGSGPRCGLGELFPENEPGSSIMPGKVNPTQCEALQMVCACQVLGNNTQTVIIGGSRGNFELNVMPVIIYNPLQSVDLLSEGMRASFEFFVKGLKVNKARLQDNINNSMLVTALAPVLGYDKCSKAALKAFHESISLKEACLALGYLSEKEFDRLVVPENMVGHN

Seq ID 82

MGLYDRDYIQDSRVQGTFASRVYGVMTAGLIVTSCVALGLYFSGLYRSLFSFWWWWCFCATLGVSFFINSKIQTLSVSAVGGLFLLYSTLEGMFGTLLPVYAAQYGGGVIWAAGSAALVFGLAAYVGAFTKSDLTKISKIMTFALIGLLVTLVFAVVSMFVSMPLIYLICYLGLVIFVGLTAADAQAIRRISSTIGDNNTLSYKLSLMFALKMVCNVIMVFWYLLQIFSSSGNRD

Seq ID 83

MVAKKTVRSYRSSFSHSVIVAILSAGIAFEAHLHSSELDLGVFNKQFEEHSAHVEEAQTSVLKGSDPVNPSPQKESEKVLYTQVPLTQGSSGESLDLADANFLEHFQHLFEETTVFGIDOKLVWSLDTRNFSQPTQEPDTSNAVSEKISSDTKENRKDLETEDPSKKSGLKEVSSDLPKSPETAVAAISEDLEISENISARDPLQGLAFFYKNTSSQSISEKDSFQGIIFSGSGANSGLGFEVLKAPKSGAAVYSDRDIVFENLVKGIFCSESLEDGSAAGVNVVTHCGVTLTDCATGDLDEALRLVKDFSRGGAVFTARNHEVQNNLAGGILSVVGNKGAIIVVEKNSAEKSNGGAFACGSFVYSSNENTALWKENQALSGGAISSASDIDIQGNCASAEFGNQSLIALGEHIGLTDVGFGALAAQGTLTLRNNAVVQCVKNTSKTHGGAILAGTVDLNETISEVAFKQNTAALTGGALSANDKVIJANNFGHILFEQNEVRNHGGAIYCGCRSNPKLEOKDSEGENINIIGNSAITFLKNKASVLEVMTQAEFYAGGGALWGNVLLDSNSGNIQFIGNIGGSTFWIGEYVGGGAILSTDRTVTSNNSGDVVFKGKNGQCLQAKYVAPOETAPVSDASSTNKDEKSLNACSHGDHYPPKTVEEVPPSLLHEPVVSSTDIRGGAILAQHIFITDNTGNLRFSGNLGGGEESSTVGDLAIVGGGALLSTNEVNVCNSQNVVFSDNVTSNGCDSSGAILAKVDISANHSVEFVSNQSGKFGGAVCALNESVNITDNGSAVFSKNRTRLGGAGVAAPQGSVTICGNQGNIAFKENFVFGSENQRSGGAIIANSSVNIQDNAGDILFVSNSTGSGYGGAIIVFGSILVASEGSNPRTLTITGNSGDILFAKNSTQAAASLSEKDSFQGGAIYTNQLKIVKNAGNVSYGNRAPSGAGVQIADGGTVCLAEFGGDILFEGNINFDSGSFNAIHLCGNDSKIVELSAVQDKNIIIFQDAITYEENTIRGLPDKDVSPLSAPSLIFNSKPQDDSAQHHEGTIRFSRGVSKIPQIAAIQEGTLLASQNAELWLAGLKQETGSSIVLSAGSILRIFDSQVDSSAPlPTENKEETLVSAGVQINMSSPTPNKDKAVDTPVLADIISITVDLSSFVPEQDGTPLPPEIIIPKGTKLHSNA

IDLKIIDPTNVGYENHALLSSHKIDPLISLKTAEGMTGPTADASLSNIKIDVSLPSITPATYHTGVWSESKMEDGRLV
 VGWQPTGYKLNPEKQGALVLNNLWSHYTDLRALKQEIAHHTIAQRMELDFSTNVWGSGLGVVEDCQNIIGEFDGFKHHLT
 GYALGLDTQLVEDFLIGGCFSQFVGKTESQSYKAKNDVKSYMGAAAGILAGPWLIKGAFTVYGNINNNDLTTDYGTLGIST
 GSwigKGFIAgTSIDYRYIVNPRRFISAIVSTVVPFVEAAYVRIDLPEISEQGKEVRTFQKTRFENVAIPFGFALEHAYS
 RGSSRAEVNSVQLAYVFDVYRKGPSLITLKDAASWSKSYGVDIPCKAWKARLSNNTEWSYLSTYLAfNYEWREDLIAYD
 FNGGIRIIF

Seq ID 84

MLIKLWRATYEGMYTFLVGALLKLRYRMQVEGWDTLNINPKQGCLFLANHVAEVDPITILEYLFWSRFHVRPMAVEYLFW
 RVVQWFLNSVRSIPIPOLVPGKESKRSLERMNVCYEEASRALNRGESLLLYPSGRSLRTGKEEVNQYSAYVLLHRVMEC
 NVLVRVSGLWGSAFSRYKQNSTPKLGPFAKEFRALLRRGIFFMPKRFVKITLCQVDHFLKQFPTKQDLNTFLASWFN
 QGDDNLPIEVPA

Seq ID 85

MINKELDIGILGKIAAGAIKQISIESIQKASSGHPGLPLGCAELAAYLYGYVLRQNPRDPHWINRDRFVLSAGHGSXLLYS
 CLHLAGFDVSLLEDLQEFRQLHSRTPGHPEYGETVGVEATTGPLGQGLGNAVGMAESKMLRSPNPGHEIFNGKJYCLA
 GDGCFMEGVSHEVCSFAGSLNLLNLLVYDYNVNVVLDGYLNEISVEDTKKRFEAYGWDVYEIDGYDFTHIHETFSSIKRG
 QERPVVLVIAHTTIGHGSPKEGTNKAHGSPLGVEGTHETKQFWHLPEEKFFVPPAVKNFFAHKIQEDRKAQEOWLDEVRVW
 SKQFPELHEEFVALTSKLPKNLESVQSVEMPDSIAGRAASNKLQIQLVQHIPYLIGGSADLSSSDGTWIANEKVIHTY
 DFSGRNKIKYGVREFGMATIMNGLAYSQVFRPFGGTFLVSDYMRNAIRALAALSKLPVYQFTHDSIFVGEDGPTHQPVQ
 LMSLRAIPLGYVIRPADANEVRGAWIAGLKHTGPTVIVLRSQALPTLPAAHRPFKDGVGRGAYIVLKESGEKPDYTLFAT
 GSEVSLALSVAKELEHLDKQVRVVSFPCWELFEAQDVYKQSVGGDLGIRVSTEAGSALGWYKYIGSEGLIAAMDRCGY
 SGASDDVSEECGFTTEQILQRILSQ

Seq ID 86

MSTMQNCPHFGVCGGCSFPQSNYSDSLKKKEELLHQLFAPLVPDSMIAPIIICPSLGRNKMFSFFQTYEGEKGSLGFI
 SSTKPKKGIPVTTCLLIHEQTMDILKLTREWWDKHPPELMAYFPPKNKGSLCTLTVRTGSPQQNFMVILTTSGTPPEYRVNE
 ACIDEWEKIELLSSSLNIASTYEEKVAARGISTYYETKLLYGAPSIQOKLSPSDGNSASFSLRPRSFQOPQITOAAKII
 ETAKEFINPEGSETLLDLYCGAGTIGIMLSPVVKNVIGVEIIPDAVASAQENIKANNKEDCDEVYLEDAKAFCKRNENCK
 APDVIIIDPPRCGMQSKVLYKILRIGSPKIVYISCNPKTQFQECADLISGGYRIKKMQPIDQFPYSTHLENILLEREID
 L

Seq ID 87

MTSGVSGSSSQDPTLAAQLAQSSQKAGNAQSGHDTKNVTQGAQAEVAAGGFEDLIQDASAQSTGKKEATSSTTKSSKG
 KSEKSGKSKSSTSVASASSETATAQAVQGPKGRLRQNNYDPSLPLTPEAQTINGIVLKKGMGLALLGLVMTLMANAGESW
 KASFQSQNQAIRSQVESAPAIGEAIKRQANHOASATEAQAKQSLISGIVNIVGFTVSVGAGIFSAAKGATSAKSAFAK
 ETGASAAGGAASKALTSASSSVQQTMASTAKAATTAASSAGSAATKAAANLTDDMAAAASKMASDGASKASGGLFGEVLN
 KPNSEKVSRCMVVKTOGARVASFAGNALSSSMQSQLMHGLTAAVEGLSAGQTGIEVAHQRLAGQAEAQAEVILQMS
 SVGQQAGQAGQLQEQAQMOSFNTALQTLQNIADSQTQTTSAIFN

Seq ID 88

MSIVRNSALPLPCLSRSETFKKVRSHMKFMKVLTPTWYRKLWVTAFLLTIAPIGSAHTLVDIAGEPRHAAQATGVSGDG
 KIVIGMKVPDDPFAITVGQYIDGHLQPLEAVRPQCSVPPNGITPDGTIVVGTVYAIQMGSAVWKVWNGKSELPMPLPDT
 LDSVASAVSADGRVIGGNRNIINLGASVAKWEDDVITQLPSPDAMNACVNGISDSGSIIVGTMVDVSWRNTAVQWIGDQ
 LSVIGTLGGTTSVASAISTDGTIVVGGSSENADSOHAYAYKNGVMSDIGTLGGFVSLAHAVSSDGSVIVGVSTNSEHRYH
 AFQYADGQMVLDGTLGGPESYAQGVSGDGKVIVGRAQVPSGDWHAFLCPFQAPSAPVHGGSTVVTQSQNPGRMVNDINATY
 SSLKNSQQQLQRLLIQHSAKVESVSSGAPSFTSVKGAIKSQSPAVQNDVQKGTFLSYRSQVHGNVQNQQLLTGAFMDWKL
 ASAPKCGFKVALHYGSQDALVERAALPYTEQGLGSSVLSFGGGVQGRYDFNLGETVVLQPFMGIQVLHLSREGYSEKNV
 RFPVSYDSVAYSAATSFMGAHVFAISLSPKMSTAATLGVERDLNHSIDEFKGSVSAMGNFVLENSTSVLRPFASLAMYYD
 VRQQQLVTLSVVMNQQPLTGTLSLVSQSSYNLSF

Seq ID 89

MFRCLFGIFLTLTCFSSGGVLYYLFCFSHDFSIGPKEKRSRVWIEEEKEFTDSVLHHLPSQHQLHILCFQGFLLQKQQKF
 SQAEKIFSKVYDEAQDGPFLKEEILGSRLLINSFFLEKTDVMETILCLLNQRCPNSPYYHLFKALVCYKQKLYREVIEQL
 AYWQEEKTRALAPLLNISIEQLLTDFLLDYISAHSLLIEQKMFPEGRVILNRNINRLLKHECEWNAKTYDRIAILLSRSYF
 LELVESKSADIYFDYYEMVLFYLLKIIYILEQCPYAELLPEELVSLIMEHVFILPKDKLYPLIQLLEMWQKHYVHPNSSL
 VVQILVDRFSTHMEGAIRFCEALVFSGSLLELHQIITTFEELLSNKVQOIKTEEAKQCVALHILDPSISISEKLALSS
 DTLQNIVGSDDEQHTKLRNYLDLWEAIQSYDIDRQQLVHHILVYGAIDLWKKGGNDEKALNLLQLVLRFTSYDIECESVVF
 LFIKOAYKQALSSHAIARLKLKFISEANIPSIVISEAENFLADAELFAHEDYDKCYLYSMWLTKVAPSPQSYRLA
 GLCLMENKRYDEALEFLCMLSPNNSINDYKTQKALAFCKHQSKDRAAS

Seq ID 90

MLGKEEEFTCKOKQCLSHFVTNLTSDFALKNLPEVVKGALFSKYSRSVGLRALLKEFLSNEEDGDVCDEAYDFETDV
 QKAADFYQRVLDNFDDSVGELGGAHLLAMENVSILAAKVLEDARIGGSPLEKSTRYVYFDQKVRGEYLYYRDPILMTSAF

KDMFLGTCDFLFDTYSALIPQVRAYFEKLYPKDSKTPASAYATSLRAKVLDCIRGLLPAATLTNLGFFGNGRFWQNLIHK
 LQGHNLAEERRLGDESLTELMKVIPSFVSRRAEPHHHHHQAMMQYRALKEQLKGLAEQATFSEEMSSSPSVQLVYGDGD
 IYKVAAGFLFPYSNRSLTDLIDYCKKMPHEDLVQILESVSARENRRHKS PRGLECVEFGFDILADFGAYRDLQRHRTLT
 QERQLLSTHGYNFPEVELDTPMEKSYREAMERANETYNEIVQEPEEAQYVMVPMAYNIRWFFHVNARALQWICELRSQP
 QGHQNYRTIATGLVREVVKFNPMYELFFKFVVDYSDIDLGRLNQEMRKEPTT

Seq ID 91
 RVMKAVVSHKSRTSSIHRQYSSYSLFYSILK

Seq ID 92
 DGVNFGNLFQPCPYCRGKYPSPCTSTLSPSS

Seq ID 93
 GLRRFCKRYSIVVSESGEPFCLLKKKKIFL

Seq ID 94
 NFPICDRSSRFRGDCRDEDLCGRNRYEAFPDDKTEGHLSCDTLALSKYCCLHSHGIWWIDSHASSPCCFCRIGGCFCNT
 PYGFLRIFLRLRPTESKIEYQ

Seq ID 95
 FLPVLPGLL LGPPLPQMSFRL

Seq ID 96
 FFIKYSLNSGYGIQKYLQTRLSAIPEWHFSGTNTSSKIKKLCEELSONCSYHRSTGILGLRSS

Seq ID 97
 CSYSVYSLWSLLQLLMLMKSEKKKS KFFNVSHFQKVRLSEDNMVQERFKECSRSLAIVKKRMLTKIPE

Seq ID 98
 AQAFGSLLLRLML

Seq ID 99
 ELLISYQRKTSSAIGKKNFTTSSQC

Seq ID 100
 EGREDLPSALRKGSPTSGNSNFRSAAYCGSCC

Seq ID 101
 RLRSTTNTSQSSPQWDCTHPIYLCDVPHGSGYV

Seq ID 102
 APQARGDTKIRGYNRTRAC

Seq ID 103
 GRLLKQCMSSLRKWLAILQLFLIAQEKLRTLQILLLPSTLVKSQALYHVLSQLQNTIDSWKLKSLDPKQFSQILM
 YFLTRILRNREGIFSISIILSPNQEYIADLWALSF

Seq ID 104
 STNPTVALASIFDAKTTKCP

Seq ID 105
 TDILVKFIKNIFPPLWRGNVVPRSKNMITSIYTHANGNLIFQILNEVTQFFKVTNP

Seq ID 106
 SSRCTQREIAGRRTVNTPKPKRCMGS

Seq ID 107
 IDATQINLNASQVDIHIRNHSSSYWSARTCMRRRVSPSTWSFIYKGEVWSWGRFPVNAFQAPNIIPNRTCFYFCSTTPCR
 GCISTTRFFSIPRTVDYSSFKFHAEHQMIVISCGSRALFHCRFYASRP

Seq ID 108
 ALLSRACVASIIPARKSASIAICLPGIASNRNRAATSATRSAPLVTTIN

Seq ID 109

NKVITGSGWVGACESMETRKPPKCLKKVDRKAVNIEITIKVTAEGKS

Seq ID 110

GISVMMMLSRCLSSFSSTCRRARTLIFPRPVYVERIPSEPOIIPVGKSGPGMTCKISSTEACGFASRRSVASISSPKL
CGGIFVAIPTAIPPEPLQRRFGNLEGKTTGSCFVSS

Seq ID 111

SGRIISVMLSAPPCELHSDLIDPDLFEFNHRLNICISAEVGRVTHTFRGDSCNMSFNCVRGNVITIPRIIRIEIRSL
TSSFSIITKCKRRISSRLRITNIIAYWSLRYVCLRIDIKTVRECSSIKLRTFRRHITLHNKFTWRSRG

Seq ID 112

SDRNSFSISVSFSKYADFIAPLNWSLRTRRAFNPVEAALIRFSHSSRVRPEVTVPEIRNS

Seq ID 113

MPWIFYKLFNINIGVIKTGFGCTCGRKRSIEFVLFFNNTNSSPTSSNGFNNNRETYFFSYF

Seq ID 114

ISMSSIETPSSPTTSIRLPISEPFSRNCAAFFTAPPQPETFSSKICPTWFKYFDQEIKGSIEGYLRSARAVERPQNAFT
TANVD

Seq ID 115

GDLEHYKHIHGPFSSKSSHGKRHKNYLMFLQCRYKTLCDQES

Seq ID 116

RVSFNASPPIITSRRDSKQEFCFFAVFRI

Seq ID 117

SIMPLAPQRSLGPATQYQLEEWPIQDTSISRDPKRLSSTNTSVSYRNASEIFSCNSSLRTKNIPILDPKCAVFTIIGKE
NVSIRF

Seq ID 118

PLGPAPITTQSNSWVIFSLTVIKISKRTPLHKCMHLIKKRTLCLF

Seq ID 119

GEQPFLFHPTSQQSLSLYHHYIGTLQSSFHHWKPLQKIAFPQKIFQDQOVHRLPTSQRGKTDLDPRFL

Seq ID 120

VTSKYASMRPSIPNPASHTRKIARAPTSRLTRFPYAGYISSKKYQGAPVSPQGRSEPSGNTMRFEESPGTHTRPPSPRTD
SEINRSLSLPGIAVG